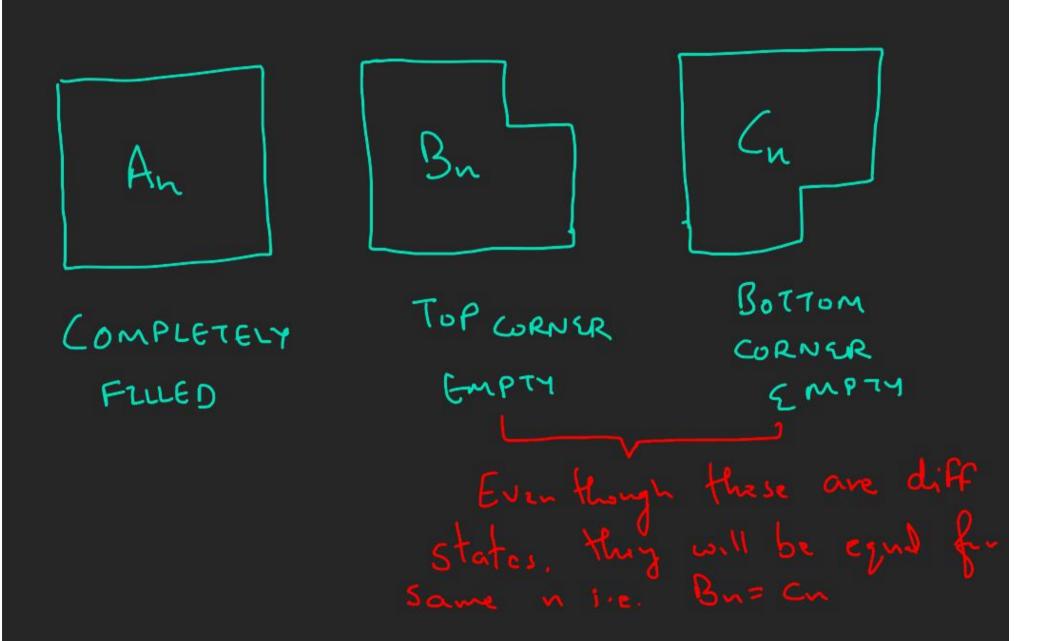
POSSIBLE STATES OF LAST COLUMN



FINDING RECCURENCE RELATION

Calculating AN

$$A_{N} = A_{N-1} = A_{N-1} + B_{N-1} = A_{N-1} + C_{N-1}$$

$$A_{N} = A_{N-2} + B_{N-1} + C_{N-1}$$

$$A_{N} = A_{N-2} + C_{N-1}$$